元智大學 102 學年度研究所 碩士班 招生試題卷

系(所)別: 理碩士班

管理學院經營管 組別: 企業管理與服務

科學碩士學程

科目: 經濟學

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請務必在答題紙標明所答題號為(1),(2).....(51),並依此題號順序作答,只需提供答案即可,不需提供計算過程。

I. Microeconomics (50 points)

A. 填空題第(1),(2),...,(26)格,除括號內有特別註明分數者外,其餘每格2分,共計50分。

	Suppose Canon Inc. decided to invest 45 oillion yen in developing and launching a new model of its digital camera, expecting
	that it will bring additional sales of 60 billion yen. The company has already invested 38 billion yen when the marketing
	department suddenly finds out that the introduction of a similar camera by Sony will reduce Canon's expected additional sales
	to 30 billion yen. The company's management is trying to decide whether to continue investing in the new product or close the
	project. Canon hires you as an economic consultant. So, think like an economist to help the company's management make their
	decision

decision:

a) At this point in time, Canon's marginal cost of introducing the new product is (1) billion yen.
b) Canon's marginal benefit from introducing the new product is (2) billion yen.
c) Will you advise Canon to finish the project and introduce the new product (3) (one point)
c) Sarah and her boyfriend Mike want to save some money to pay for their wedding. So mey decided to help people in the neighborhood by cleaning their garages and mowing lawns. Sarah takes 60 minutes to clean a garage and 80 minutes to mow a lawn. Mike takes 80 minutes to clean a garage and 80 minutes to mow a lawn. Sarah and Mike devote 10 hours per week each to these activities and get paid \$25 for each garage they clean and \$25 for each lawn they mow.
a) Sarah's opportunity costs in cleaning garages is (4) dollars.
C) (5) (one point) as a comparative advantage in cleaning garages.

Tite table below there is the demand and supply schedules for Gas in Dryland. A subsidy on gas of \$10 per gallon is proposed and the government asks you to examine the effects of the subsidy.

Outlity demanded Ouantity supplied

Price (dollars per gallon)	Quantity demanded (millions of gallons per year)	Quantity supplied (millions of gallons per year)
10	320	0
20	240	0
30	160	80
40	80	160
50	0	240

a) With the subsidy, the price that consumers pay is 6, the price that sellers receive is 7), and 8)

gallons of gas are sold.
b) With the subsidy, the marginal social benefit from gas is 9, and the marginal social cost of gas is 10.

b) With the subsidy, the marginal social benefit from gas is (9), and the marginal social cost of gas is (10).
c) And dead weight loss for the whole economy is (11).
d) One year ago, Ms. Case and Mr. Bond opened a book store called C&B Bookstore. They invested \$1,000,000 of their savings into the partnership to buy equipment and initial inventory. They rented a building for \$90,000 a year, and hired two employees for an annual wage of \$40,000 each. Case and Bond believed that the best alternative investment of their money would be government bonds, which could yield an annual return of 8 percent. To run the store, Case quit her previous job, at which she earned \$100,000, but her former boss told her that she was welcome to return anytime. Bond kept his job with the government, but gave up 6 hours of leisure each week (for 50 weeks), the time he used to spend playing golf. Bond used to say:

"I'd only give up my golf time if someone paid me \$100 an hour." During the first year of operation, C&B paid \$20,000 for utilities and the firm's total revenue was \$350,000. The market value of C&B is equipment was \$200,000 at the beginning of the year and \$170,000 at the end of the year.

a) The explicit costs of C&B Bookstore is (12), and implicit costs is (13).

b) The economic depreciation of their capital is (14).

c) The firm's economic profit in the first year of operation is (15).

Anna's Farm produces and sells milk. The market for milk is perfectly competitive. The market price of milk is \$2.50 per gallon. The relationship between the farm's output and total costs is shown in the table below. Use these given information to calculate Anna's average variable, average total, and marginal cost and try to draw those curves. After you done that, use those curves to answer the following questions:

Quantity Total cost

Quantity Total cost (gallons per day) (dollars per day) 400 703 880 1,008 100 200 300 400 500 1,160 1,410 600

a) If Anna maximizes her profit, her output is (16). Under that output, her p
b) If the market price is equal to (18), Anna will shut down her production Under that output, her profit/loss would be ______(17) ____.

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6. Nimbus, Inc., and Clean, Inc. are the only producers of flying brooms. Each firm has two strategies: Spend 30,000 dollars a year on research and development (R&D) or spend nothing on R&D. If neither firm spends on R&D, Nimbus' economic profit is 80,000 dollars, and Clean's economic profit is 40,000 dollars. If each firm conducts R&D, market shares are maintained, but each firm's profit is lower by the amount spent on R&D. If Nimbus conducts R&D and Clean does not, Nimbus makes an economic profit of 120,000 dollars, while Clean incurs an economic loss of 20,000 dollars. If Clean Inc. con-ducts R&D and Nimbus does not, Cleans Inc. makes a profit of 60,000 dollars while Nimbus loses 10,000 dollars.

a) In the Nash equilibrium, Nimbus, Inc., will get [19] profit and Clean, Inc., will get [20] profit.

7. The table below shows costs, private benefits of students, and social benefits arising from college education. There is no government involvement and the schools are competitive.

Enrollment Marginal social cost Marginal private benefit Marginal external benefit

Enrollment (millions of students per year)	Marginal social cost (thousands of dollars per student per year)		Marginal external benefit (thousands of dollars per student per year)
4	4	16	8
8	6	14	7
12	- 8	12	6
16	10	10	5
20	12	8	4
24	14	6	3
relect aquilibrium annall		4	

a) The market equilibrium enrollment is (21) and the tuition is (22).
b) Considering social benefit of education to the whole society, the efficient level of enrollment is (23). Hence, the deadweight loss of the competitive market is (24).
c) If the government provides the efficient amount of education, of the total tuition paid by a student, the government

(25) and a student pay_ (26)

II. Macroeconomics (50 points):

B. 單遷題第(27),(28),...,(46)格·每格2分·共計40分。

B. 草退是素(27)(28)....(46)終・最格2 分・共計 40 分・

According to the light signals announced by Council for Economic Planning and Development (逆速音) based on monitoring indicator for Taiwan economy, the light colors from November, 2011, to August, 2012, are all blue (incredibly 10-succession blues). Afterwards, the color has turned into yellow-blue for months (at least, till November) in the end of 2012, which meant that Taiwan economy, for that time, was (27) (d) Only just under recession; (b) Only just recovering from the recession; (c) About to fall into recession; (d) About to be overheated; (e) A little bit tood down from overheated.

In addition to light signals, Council for Economic Planning and Development also regularly announces the composite indicators for Taiwan economy, including leading indicators, coincident indicators, and lagging indicators. As for the respective component series, which of the following items should be classified as a "lagging" indicator? (28) (a) Stock prices index; (b) Unemployment rate; (c) Industrial production index; (d) Electric power consumption; (e) Monetary aggregate (M1₂).

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3. After the serious impact of 2008 global financial crisis, the U.S. authorities conducted the well-known "Quantitative Easing Policy", which called QE1, QE2, and even QE3 (just announced in 13 September 2012). Essentially, these measures are nothing but expansionary monetary policies under the circumstances when (29) approaches the "zero lower bound". (a) Federal finals rate; (b) Corporate bond rate; (c) Discount rate; (d) 10-year reasury bound rate; (e) Mortgage loan rate.

4. By definition, the "internal balance" requires (30) (a) The balanced trade; (b) Zero unemployment rate; (c) The full employment output; (d) Zero inflation rate; (e) None of the above.

5. Which of the following currency have the "largest" absolute value of currency nowadays? (31) (a) New Taiwan Dollar; (b) Singapore Dollar; (c) Hong Kong Dollar; (d)Thailand Baht; (e) Euro.

6. If inflation is greater in Korea by 10% than it is in the rest of the world, then the purchasing power parity (PPP) theory predicts that the (32) (a) Korean won would appreciate; (b) Korean won would depreciate; (c) Korean won would remain stable; (d) U.S. dollar would weaken; (e) Korean products must have real appreciation.

7. The so-called Okuri's law is an empirically observed negative relationship between (33) (a) Inflation rate and interest rate; (b) GDP and net exports; (c) Inflation rate and exchange rate; (d) Unemployment rate and real output gap; (e) Unemployment rate and job vacancy rate.

8. Which of the following account should be included in M1_{Ar} by the definition of Taiwan's central bank? (34) (a) Demand saving deposit; (b) Foreign currency deposit; (c) Time deposit; (d) Currency held by the public; (e) Mutual fund. Demand saving deposit; (b) Foreign currency deposit; (c) Time deposit; (d) Curren

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- 11."Europe an sovereign debt crisis" is one of the modern economic issues which caused widespread concern since 2009.

- above.

 15. Saudi Arabia sent petroleum to Taiwan in exchange of U.S. dollars. In Taiwan, this will lead to (41) (a) No change in the current account; (b) A merchandise trade deficit; (c) A balance of payments deficit; (d) A Financial account deficit; (e) Vone of the above.
- 16.If the central bank finance the government deficit which is just resulted from the tax cut, all these measures together would lead to ____(42)____(a) Right shift of bath IS and LM curve; (b) Right shift of only LM curve; (c) Right shift of only IS curve; (d) Right shift of LM curve but left shift of IS curve; (e) Left shift of both IS and LM curve.

 17.The Hong Kong Monetary Authority (HKMA) (考考金融管理局) declared "linked exchange rate regime" (建聚區中制) is

C. 填空题(47),(48),...,(51),如有必要,答案請四拾五入至小數點以下第二位,或以分數型式表示,每格2分,共計10分。

Let's take a look at a small and simplified open economy model, where C, I, G, X, M represent the consumption, investment, government spending, exports and imports of that economy, respectively. Among these variables, assumed that investment, government spending and exports are all exogenous, namely $I=\overline{I}$, $G=\overline{G}$, and $X=\overline{X}$. Besides, consumption and import function can be expressed as followed (Y denotes the domestic income):

$$C = \overline{C} + cY$$
, $M = \overline{M} + mY$,

Where \overline{C} and \overline{M} denote the autonomous consumption and imports, while c and m represent the marginal propensity to consume and import. Moreover, following information is also given:

$$\overline{C} = \overline{I} = \overline{G} = 40$$
, $\overline{X} = \overline{M} = 30$, $c = 0.7$, $m = 0.2$.

- and the trade balance (TB=X-M) a) According to the above setting, the equilibrium income (Y) should be_ (47)
- a) According to the above seeing, the equitation into the should be a should be a solution of the should be as the should be as the solution of the should be as the solution of the solution concretely, exports and imports function are now replaced by: $X = \overline{X}' - uE$, $M = \overline{M}' + mY + vE$,
 - Where $\overline{X}' = 80$, $\overline{M}' = 20$, u = v = 20, and E = 2 (Besides, all other settings are unchanged). Therefore, the new equilibrium
- income (Y) should be 49 and the corresponding trade balance (TB=X-M) should be 50 continued to the sub-question (b), assumed that purchasing power parity (PPP) finally holds. In other words, it that the economy should experience a real depreciation, says, E decrease from 2 to 1. At that time, the ec should have a 51 (A) Trade surplus; (B) Trade deficit; (C) Balanced trade.